

ATL Number: 064234

(EPA 200.8) - INITIAL CALIBRATION

Instrument ID: ICP4
Date(s) Analyzed: 08/13/03

Initial Calibration:

| COMPOUND | INTENSITY | | | | r2 |
|----------|-----------|-------|--------|--------|----------|
| | STD1 | STD2 | STD3 | STD4 | |
| CHROMIUM | 15965 | 57027 | 100767 | 191573 | 0.999942 |
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| Standard Concentration | 0.5 ppb | 5 ppb | 10 ppb | 20 ppb |
|------------------------|------------|------------|------------|------------|
| Standard ID: | MST030813K | MST030813J | MST030813I | MST030813H |

Calibration Acceptance Criteria: > 0.995 Correlation

0124



ATL Number: 064234

(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERIFICATION
(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 08/13/2003

| | | |
|--------------------------------------|--------------------------------------|--|
| Initial Calibration Verification: | <u>Source:</u> <u>LEEMAN LABS</u> | <u>Standard Code:</u> <u>MST030813M</u> |
| Continuing Calibration Verification: | <u>LEEMAN LABS</u> | <u>MST030813M</u> |

Concentration Units: ug/L

| Analyte | Initial Calibration | | | Continuing Calibration | | | | |
|----------|---------------------|-------|-------|------------------------|---------------|-------|---------------|-------|
| | True | Found | %R(1) | True | Found CCV1 | %R(1) | Found CCV2 | %R(1) |
| Chromium | 10.0 | 9.911 | 99 | 10.0 | 9.574 | 96 | 9.425 | 94 |
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ICV Limits: 90 -110%
CCV Limits: 85 -115%



ATL Number: 064234

(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERIFICATION
(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 08/13/2003

| | | |
|--------------------------------------|--------------------------------------|--|
| Initial Calibration Verification: | <u>Source:</u> <u>LEEMAN LABS</u> | <u>Standard Code:</u> <u>MST030813M</u> |
| Continuing Calibration Verification: | <u>LEEMAN LABS</u> | <u>MST030813M</u> |

Concentration Units: ug/L

| Analyte | Initial Calibration | | | Continuing Calibration | | | | |
|----------|---------------------|-------|-------|------------------------|---------------|-------|---------------|-------|
| | True | Found | %R(1) | True | Found CCV3 | %R(1) | Found CCV4 | %R(1) |
| Chromium | 10.0 | 9.911 | 99 | 10.0 | 9.429 | 94 | | 0 |
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ICV Limits: 90 -110%
CCV Limits: 85 -115%

ATL Number: 064234

(EPA 200.8) BLANK *

Instrument ID: ICP 4
Date Digested: N/A
Digestion Method: N/A

Dilution Factor: 1
Matrix: Water
Date Analyzed: 08/13/2003

QC Batch Number: R30051

| Analyte | DLR | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | C | M |
|----------|-----|-----------------------------|---|-------------------------------------|---|-------|---|-------|---|-------------------|---|---|
| | | | | 1 | C | 2 | C | 3 | C | | | |
| Chromium | 1 | 0.102 | | 0.090 | | 0.010 | | 0.029 | | 0.115 | | |
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0127



ATL Number: 064234

Instrument ID: ICP4 Internal Standard ID: MST030606A

Date Analyzed: 08/13/2003 Standard Concentration: 50 ug/L

QC Batch: R30051

| | | Sc | | | |
|-------------------|--------------------|-----------|-------|--|--|
| | | Intensity | % Rec | | |
| Calibration Blank | | 583761 | --- | | |
| Lab ID | Sample Description | | | | |
| MB-R30051 | MB-R30051 | 579250 | 99 | | |
| LCS-R30051 | LCS0R30051 | 579846 | 99 | | |
| 064234-014AMS | | 624163 | 107 | | |
| 064234-014AMSD | | 668934 | 115 | | |
| 064234-001A | | 703103 | 120 | | |
| 064234-002A | | 668646 | 115 | | |
| 064234-003A | | 651279 | 112 | | |
| 064234-004A | | 632763 | 108 | | |
| 064234-005A | | 653270 | 112 | | |
| 064234-006A | | 504940 | 86 | | |
| 064234-007A | | 580156 | 99 | | |
| 064234-008A | | 592207 | 101 | | |
| 064234-009A | | 594323 | 102 | | |
| 064234-010A | | 599088 | 103 | | |
| 064234-011A | | 617068 | 106 | | |
| 064234-012A | | 593110 | 102 | | |
| 064234-013A | | 605949 | 104 | | |
| 064234-014A | | 589081 | 101 | | |
| 064234-015A | | 658142 | 113 | | |
| 064234-016A | | 696586 | 119 | | |
| 064234-017A | | 635411 | 109 | | |
| | | | | | |

* Outside Acceptance Criteria

Acceptance Criteria: 60 - 125%



ATL Number: 064234

Instrument ID: ICP4 Internal Standard ID: MST030606A

Date Analyzed: 08/13/2003 Standard Concentration: 50 ug/L

QC Batch: R30051

| | | Sc | | | |
|-------------------|--------------------|-----------|-------|--|--|
| | | Intensity | % Rec | | |
| Calibration Blank | | 583761 | --- | | |
| Lab ID | Sample Description | | | | |
| 064234-018A | | 621749 | 107 | | |
| 064234-019A | | 531833 | 91 | | |
| 064234-010ADUP | | 600922 | 103 | | |
| 064234-014ADUP | | 598526 | 103 | | |
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* Outside Acceptance Criteria

Acceptance Criteria: 60 - 125%

ICP-MS : Turbidity Check and Sample Preparation Log

QC Number: R30051 Date Read / Digested: 8-13-03

Method (Circle one): 200B Turb. Calibration: 10 NTU Matrix (Circle one): 4) Soil Acid Lot # N/A
 1) Drinking Water 2) Ground Water 3) Liquid 4) Soil 5) Solid 6) Other water
 Std Code: SGF-00000 Initials: NJ

| Sample ID | Turbidity Result * | Sample Wt./Vol. | Spike /LCS Amt. Added | Spike /LCS Conc. (ppm) | Spike Code | Final Vol (ml) | Initials | Comments |
|-----------------|--------------------|-----------------|-----------------------|------------------------|------------|----------------|----------|------------|
| MS 064234-014A | 0.11 | 10 | 0.1 ml | 1 ppm | F5P0813L | 10 | NJ | |
| MSD | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| Method Blank | - | ↓ | - | - | - | ↓ | ↓ | |
| LCS | - | ↓ | 0.1 ml | 1 ppm | F5P0813L | ↓ | ↓ | |
| Blank MS | X | X | X | X | X | X | X | X |
| Blank MSD | X | X | X | X | X | X | X | X |
| 1 064234-001A | 0.03 | 10 | | | | 10 | NJ | |
| 2 -002A | -0.11 | | | | | | | |
| 3 -003A | -0.12 | | | | | | | |
| 4 -004A | -0.07 | | | | | | | |
| 5 -005A | 0.18 | | | | | | | |
| 6 -006A | 0.21 | | | | | | | |
| 7 -007A | -0.07 | | | | | | | |
| 8 -008A | -0.02 | | | | | | | |
| 9 -009A | -0.01 | | | | | | | |
| 10 -010A | -0.08 | | | | | | | |
| 11 -011A | 0.09 | | | | | | | |
| 12 -012A | -0.10 | | | | | | | |
| 13 -013A | 0.34 | | | | | | | |
| 14 -014A | 0.11 | | | | | | | |
| 15 -015A | -0.07 | | | | | | | |
| 16 -016A | -0.15 | | | | | | | |
| 17 -017A | -0.05 | | | | | | | |
| 18 -018A | 0.12 | | | | | | | |
| 19 -019A | -0.15 | | | | | | | |
| 20 064234-010A | -0.08 | | | | | | | |
| DUP 064234-014A | 0.41 | | | | | 10 | NJ | NS 8-13-03 |

* Turbidity <1 NTU DOES NOT need sample preparation.

Metals Working Standard Prep Log

| Date | Standard Name | Working Std Code | Stock Info | | Preparation | |
|----------|---------------------------------|------------------|---|----------------------------------|----------------------------------|-------------------------|
| | | | Stock Std Code | Stock Concentration | Stock Concentration | Amount Taken from Stock |
| 06-05-03 | ICPM - 10 | TUST030605 C | TUST030605 B | 20 ppb | 20 ppb | 25 |
| | I - 5 | D | C | 10 ppb | 10 ppb | 25 |
| | I - 0.5 | E | D | 5 ppb | 5 ppb | 5 |
| | ICPM - LCS ₁ | F | NST021216 D NST021216 B | 10 ppm 1000 ppm | 10 ppm 1000 ppm | 0.05 |
| | I - ICW/CW @ 10 | G | NST030605 | 1 ppm | 1 ppm | 0.5 |
| 06-06-03 | ICPM - Internal Std. | HST030606 A | HST030606 A | 1000 ppm | 1000 ppm | 1 ml |
| | I | | B Ge | | | |
| | I | | C Tb | | | |
| | I | | D Se | | | |
| | I | | E In | | | |
| | I | | F Tm | | | |
| 06-05-03 | Ag - HS/MSD / 10 ppm | HSP030605 A | HSP030414 C | 1000 ppm | 1000 ppm | 0.5 |
| 06-09-03 | ICPM - STD ₁ | HST030609 A | NST030462 A HST030462 B HST030462 C | 1000 ppm 1000 ppm 1000 ppm | 1000 ppm 1000 ppm 1000 ppm | 5 0.05 5 |
| | I - 20 | B | HST030609 A | 1 ppm | 1 ppm | 1 |
| | I - 10 | C | B | 20 ppb | 20 ppb | 25 |
| | I - 5 | D | C | 10 ppb | 10 ppb | 25 |
| | I - 0.5 | E | D | 5 ppb | 5 ppb | 5 |
| | ICPM - LCS ₁ | F | NST021216 D NST021216 B NST030414 B | 10 ppm 1000 ppm 10 ppm | 10 ppm 1000 ppm 10 ppm | 5 0.05 5 |
| | I - ICW/CW @ 10 | G | HST030609 F | 1 ppm | 1 ppm | 0.5 |
| | ICPM - 100 | H | HST030609 A | 1 ppm | 1 ppm | 5 |

Metals Working Standard Prep Log

| Preparation | | Expiration Dates | | Comments | Initials |
|-----------------|---------------------|---|---------------------------|------------------------------|----------|
| Final Vol. (ml) | Final Conc. (ug/ml) | Diluent Matrix (ie H ₂ O) | Working STD * Exp Date | | |
| 50 | 10 ppb | DI H ₂ O 2% HNO ₃ | 09-03-03 | Wenman | NS |
| | 5 ppb | | | | |
| | 0.5 ppb | | | | |
| | 1 ppm | | | Wenman | |
| | 10 ppb | | | | |
| 100 | 10 ppm | DI H ₂ O 2% HNO ₃ | 09-04-03 | High Purity | NS |
| | | | | | |
| | | | | | |
| 50 | 10 ppm | DI H ₂ O 2% HNO ₃ | 09-04-03 | Wenman High Purity NS 6-6-03 | NS |
| | | | | Wenman High Purity NS 6-4-03 | NS |
| 50 | 10 ppm | DI H ₂ O 2% HNO ₃ | 09-03-03 | Wenman High Purity | |
| 50 | 10 ppm | DI H ₂ O 2% HNO ₃ | 09-07-03 | Wenman High Purity | |
| | 20 ppb | | | | |
| | 10 ppb | | | | |
| | 5 ppb | | | | |
| | 0.5 ppb | | | | |
| | 1 ppm | | | Wenman High Purity | |
| | 10 ppb | | | | |
| | 100 ppb | | | Wenman High Purity | |

Metals Working Standard Prep Log

| Date | Standard Name | Working Std Code | Stock Info | | Preparation | |
|---------|------------------------------|------------------|----------------------------|---------------------|---------------------|-------------------------|
| | | | Stock Std Code | Stock Concentration | Stock Concentration | Amount Taken from Stock |
| 7-11-03 | ICFMS - 5 | HST030711 D | HST030711 | 10 ppb | 10 ppb | 25 |
| | L -0.5 | E | | 5 ppb | 5 ppb | 5 |
| | ICFMS - LCS1 | F G | HST021216 B HST021216 B | 1000 ppm 10 ppm | 1000 ppm 10 ppm | 0.05 5 |
| | L - IWLK@10 | H | HST030711 | 1 ppm | 1 ppm | 0.5 |
| 7-15-03 | ICFMS - Working Stock Sol'n. | HST030715 A | HST-010523 E | 1000 ppm | 1000 ppm | 0.5 |
| | | | HST030414 H | | | |
| | | | HST030217 J | | | |
| | | | HST030414 E | | | |
| | | | HST030414 C | | | |
| | | | HST030414 G | | | |
| | | | HST030217 H | | | |
| | | | HST030217 I | | | |
| | | | HST030217 E | | | |
| 7-16-03 | ICFMS - Working Solution | HST030716 A | HST030715 A | 1 ppm | 1 ppm | 10 |
| | | | HST030402 A HST030402 B | 10 ppm 1000 ppm | 10 ppm 1000 ppm | 5 0.05 |
| 7-16-03 | ICFMS - STD, | HST030716 B | HST030716 B | 1 ppm | 1 ppm | 1 |
| | L -20 | C | | | | |
| | L -10 | D | | | | |
| | | | | 20 ppb | 20 ppb | 25 |

Metals Working Standard Prep Log

| Preparation | | Expiration Dates | | Comments | Initials |
|-----------------|---------------------|---|------------------------|------------------------------|----------|
| Final Vol. (ml) | Final Conc. (ug/ml) | Diluent Matrix (ie H ₂ O) | Working STD * Exp Date | | |
| 50 | 5 ppb | DI H ₂ O + HNO ₃ 2% | 10-09-03 | Aceman | NS |
| | 0.5 ppb | | | | |
| | 1 ppb | | | | |
| | 10 ppb | | | | |
| 500 | 1 ppb | DI H ₂ O + HNO ₃ 2% | 10-13-03 | Ultra Scientific | NS |
| | | | | High Purity | |
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| 1000 | 10 ppb | DI H ₂ O + HNO ₃ 2% | 10-14-03 | Ultra Scientific High Purity | NS |
| | 1 ppb | | | Aceman | NS |
| 50 | 20 ppb | | | | |
| | 10 ppb | | | | |

Metals Working Standard Prep Log

| Date | Standard Name | Working Std Code | Stock Info | | Preparation | |
|----------|----------------------|------------------|----------------|---------------------|---------------------|-------------------------|
| | | | Stock Std Code | Stock Concentration | Stock Concentration | Amount Taken from Stock |
| 08-11-03 | ICPMS - LCS | MSTD0811E | MSTD0811E | 1000 ppm | 1000 ppm | 0.05 |
| | I - Iw/cw @ 20 | F | MSTD0811E | 1 ppm | 1 ppm | 2.5 |
| | ICPMS - 400 | G | A | 1 ppm | 1 ppm | 20 |
| | I - 200 | H | G | 400 ppm | 400 ppm | 25 |
| | I - 100 | I | H | 200 ppm | 200 ppm | 25 |
| | ICPMS - Iw/cw @ 20 | J | E | 1 ppm | 1 ppm | 10 |
| | ICPMS - STD | G | MSTD0813G | 10 ppm | 10 ppm | 0.05 |
| 08-12-03 | I - 20 | H | MSTD0813G | 1 ppm | 1 ppm | 1 |
| | I - 10 | I | H | 20 ppm | 20 ppm | 25 |
| | I - 5 | J | I | 10 ppm | 10 ppm | 25 |
| | I - 0.5 | K | J | 5 ppm | 5 ppm | 5 |
| | ICPMS - LCS | L | MSTD0813G | 10 ppm | 1000 ppm | 0.05 |
| | I - Iw/cw @ 10 | M | MSTD0813L | 1 ppm | 1 ppm | 0.5 |
| 08-12-03 | Ag - Iw/Std / 10 ppm | A | MSP030414A | 1000 ppm | 1000 ppm | 0.5 |
| | Ag - LCS / 10 ppm | B | MSP030407C | I | I | I |
| 08-14-03 | ICPMS - STD | A | MSTD0814A | 10 ppm | 1000 ppm | 0.05 |
| | I - 20 | B | MSTD0814A | 1 ppm | 1 ppm | 1 |
| | I - 10 | C | B | 20 ppm | 20 ppm | 25 |
| | I - 5 | D | C | 10 ppm | 10 ppm | 25 |
| | I - 0.5 | E | D | 5 ppm | 5 ppm | 5 |

Metals Working Standard Prep Log

| Preparation | | Expiration Dates | | Comments | Initials |
|-----------------|---------------------|---|---------------------------|------------------------|----------|
| Final Vol. (ml) | Final Conc. (ug/ml) | Diluent Matrix (ie H ₂ O) | Working STD * Exp Date | | |
| 50 | 1 ppm | DI H ₂ O + 2% HNO ₃ | 11-09-03 | high purity EN Science | MS |
| + | 50 ppb | | | Leeman high purity | I |
| | 400 ppb | | | Leeman high purity | |
| | 200 ppb | | | | |
| | 100 ppb | | | Leeman EN Science | |
| | 200 ppb | | | Leeman | |
| 50 | 1 ppm | DI H ₂ O + 2% HNO ₃ | 11-11-03 | Leeman | MS |
| | 20 ppb | | | | |
| | 10 ppb | | | | |
| | 5 ppb | | | Leeman | |
| | 0.5 ppb | | | | |
| | 1 ppm | | | | |
| | 10 ppb | | | | |
| 50 | 10 ppm | DI H ₂ O + 2% HNO ₃ | 11 MS 8-10-03 08-10-03 | Leeman | MS |
| + | | | 11-10-03 | | I |
| 50 | 1 ppm | DI H ₂ O + 2% HNO ₃ | 11-12-03 | Leeman | MS |
| | 20 ppb | | | | |
| | 10 ppb | | | | |
| | 5 ppb | | | | |
| + | 0.5 ppb | | | | |

Check working std versus all manufacturer's

Metals Working Standard Prep Log

| Date | Standard Name | Working Std Code | Stock Info | | Preparation | |
|----------|---------------------------|------------------|----------------------------|---------------------|---------------------|-------------------------|
| | | | Stock Std Code | Stock Concentration | Stock Concentration | Amount Taken from Stock |
| 08-14-03 | ICPMS - LCS ₁ | MST030814 F | MST021216 D MST021216 B | 10 ppm 1000 ppm | 10 ppm 1000 ppm | 5 0.05 |
| | ↓ - IAW/CEU@10 | ↓ G | MST030814 F | 1 ppm | 1 ppm | 0.1 |
| 08-15-03 | ICPMS - STD ₁ | MST030815 A | MST030402 A | 10 ppm | 10 ppm | 5 |
| | ↓ - 10 | ↓ B | MST030815 A | 1 ppm | 1 ppm | 0.5 |
| | ↓ - 7.5 | ↓ C | ↓ B | 10 ppm | 10 ppm | 37.5 |
| | ↓ - 5 | ↓ D | ↓ C | 7.5 ppm | 7.5 ppm | 20 |
| | ICPMS - LCS ₁ | ↓ E | MST021216 D | 10 ppm | 10 ppm | 5 |
| | ↓ - IAW/CEU@10 | ↓ F | MST030815 E | 1 ppm | 1 ppm | 0.25 |
| 08-15-03 | ICPMS - Internal Standard | MST030815 G | MST030217 A Li | 1000 ppm | 1000 ppm | 1 mL |
| | ↓ | ↓ | ↓ B Ge | ↓ | ↓ | ↓ |
| | ↓ | ↓ | ↓ C Tb | ↓ | ↓ | ↓ |
| | ↓ | ↓ | ↓ D Sc | ↓ | ↓ | ↓ |
| | ↓ | ↓ | ↓ E In | ↓ | ↓ | ↓ |
| | ↓ | ↓ | ↓ F Tm | ↓ | ↓ | ↓ |

Metals Working Standard Prep Log

| Preparation | | Expiration Dates | | Comments | Initials |
|-----------------|---------------------|---|---------------|-------------|----------|
| Final Vol. (ml) | Final Conc. (ug/ml) | Diluent Matrix (ie H ₂ O) | Working STD * | | |
| 50 | 1 ppm | DI H ₂ O + H ₂ O ₂ ^{2%} | 11-12-03 | benen | WS |
| ↓ | 10 ppb | ↓ | 11-13-03 | ↓ | ↓ |
| 50 | 10 ppm | DI H ₂ O + H ₂ O ₂ ^{2%} | | benen | WS |
| ↓ | 10 ppb | ↓ | | ↓ | ↓ |
| 30 | 7.5 ppb | | | | |
| ↓ | 5 ppb | | | | |
| 50 | 1 ppm | | | benen | |
| ↓ | 5 ppb | | | ↓ | ↓ |
| 100 ml | 10 ppm | DI H ₂ O + H ₂ O ₂ ^{2%} | 11-13-03 | High purity | WS |
| ↓ | ↓ | ↓ | | ↓ | ↓ |
| ↓ | ↓ | ↓ | | ↓ | ↓ |
| ↓ | ↓ | ↓ | | ↓ | ↓ |

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

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Submitted to:

GEOFON, Inc.

Attention: Brad Shojaee

22632 Golden Spring Dr Ste 270

Diamond Bar CA 91765

Tel: (909)396-7662 Fax: (909)396-1455

APCL Analytical Report

Service ID #: 801-034697

Received: 08/11/03

Collected by:

Extracted: N/A

Collected on: 08/11/03

Tested: N/A

Reported: 10/15/03

Sample Description: Water

Project Description: 04-4428.10 JPL

Analysis of Water Samples

| Component Analyzed | Method | Unit | PQL | Analysis Result | | | |
|--------------------|--------|------|-----|-----------------|--------------|------------|------------|
| | | | | DUPE-5-3-Q03 | EB-7-8-11-03 | MW-12-1 | MW-12-2 |
| | | | | 03-04697-1 | 03-04697-2 | 03-04697-3 | 03-04697-4 |

CHROMIUM ^(a)

| Component Analyzed | Method | Unit | PQL | Analysis Result | | | |
|--------------------|--------|------|-----|-----------------|------------|------------|------------|
| | | | | MW-12-3 | MW-22-1 | MW-22-2 | MW-22-3 |
| | | | | 03-04697-5 | 03-04697-6 | 03-04697-7 | 03-04697-8 |

CHROMIUM ^(a)

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

"-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

^(a) Subcontracted to ATL Inc. See attached.

Respectfully submitted,



Dominic Lau
Laboratory Director

Applied P & Ch Laboratory



INCORPORATED
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CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

MVN-12

DD53

GEOFON'S LAB COORDINATOR: Brad Shojaee LAB COORDINATOR'S PHONE: (909) 396-7662 LAB COORDINATOR'S FAX: (909) 396-1455

PROJECT NAME: 3PL 4w MN-3903 PROJECT LOCATION: MNW-12 (E. of Bl 302) PROJECT NUMBER: 04-442810 LABORATORY SERVICE ID: LABORATORY CONTACT: Kangy Chen MAIL REPORT (COMPANY NAME): GEOFON, INC.

PROJECT CONTACT: S. Robinson PROJECT PHONE NUMBER: (714) 920 8729 PROJECT FAX: (909) 396-1455 LABORATORY PHONE: (909) 590-1828 LABORATORY FAX: (909) 590-1498 RECIPIENT NAME: Tony Ford

PROJECT ADDRESS: 4800 Oak Lane Dr. PASADENA, CA. CITY, STATE AND ZIP CODE: PASADENA, CA. 91765 CLIENT: US NAVY SNOW LABORATORY ADDRESS: 13760 Magnolia Ave. CITY, STATE AND ZIP CODE: CHINO, CA. 91710 ADDRESS: 22632 Golden Springs Dr. #270 CITY, STATE AND ZIP CODE: DIAMOND BAR, CA. 91765

| Item | Sample Identifier | Matrix | Date | Time | Preserved | # of Cont. | QC Level | T.A.T | Analyses | Comments |
|------|-------------------|------------------|---------|------|-----------|------------|----------|--------|----------|----------|
| | | | | | | | | | | |
| 1 | MVN-12-5 | H ₂ O | 8/11/03 | 1012 | NONE | 3411 | TTC | normal | X | |
| 2 | MVN-12-4 | | | 1040 | | | | | X | HS/MSD |
| 3 | MVN-12-3 | | | 1104 | | | | | X | |
| 4 | MVN-12-2 | | | 1124 | | | | | X | |
| 5 | MVN-12-1 | | | 1144 | | | | | X | |
| 6 | | | | | | | | | X | |
| 7 | | | | | | | | | X | |
| 8 | | | | | | | | | X | |
| 9 | | | | | | | | | X | |
| 10 | | | | | | | | | X | |

SAMPLES COLLECTED BY: LOW. WILLIAMSON COURIER AND AIR BILL NUMBER: RECEIVED BY: DATE: TIME: COOLER TEMPERATURE UPON RECEIPT: SAMPLE'S CONDITION UPON RECEIPT:

4697

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager



INGORPORATED
22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

MW-22

0054

GEOPON: LAB COORDINATOR LAB COORDINATOR'S PHONE LAB COORDINATOR'S FAX LABORATORY SERVICE ID LABORATORY CONTACT MAIL REPORT (COMPANY NAME)

Brad Shapiro (909) 396-7662 (909) 396-1455
Kenny Chan
GEOFON INC.

PROJECT NAME: TRC WYMAN-3903 PROJECT LOCATION: MW-22 (N. of Bl 180) PROJECT NUMBER: 04-4428.10 LABORATORY PHONE: (909) 590-1928 LABORATORY FAX: (909) 590-1455 RECIPIENT NAME: Tony Ford

PROJECT CONTACT: J. Robinson PROJECT PHONE NUMBER: (914) 920 8729 PROJECT FAX: (909) 396-1455 LABORATORY ADDRESS: 13760 Magnolia Ave ADDRESS: 22632 Golden Springs Dr #270

PROJECT ADDRESS: 4800 Oak Lane Dr. CITY, STATE AND ZIP CODE: Pasadena, CA CLIENT: US NAVY SUNDIV CITY, STATE AND ZIP CODE: Diamond Bar, CA 91765

PROJECT MANAGER: Hsiao Fahnam PROJECT MANAGER'S PHONE: (909) 396-7662 PROJECT MANAGER'S FAX: (909) 396-1455

| Item | Sample Identifier | Matrix | Date | Time | Preserved | # of Cont | QC Level | T.A.T | Analyses | | | Comments |
|------|-------------------|------------------|---------|----------------------|-------------|-----------|----------|--------|--------------|--------------------|--------------------|----------|
| | | | | | | | | | 524.2 (NOCS) | 314.0 (Recl. back) | 7196 (Hex. (Lead)) | |
| 1 | MW-22-3 | H ₂ O | 8/11/03 | 0741 | HCl NONE | 3441 | III | Normal | X | X | X | |
| 2 | MW-22-2 | | | 0813 | | | | | X | X | X | |
| 3 | MW-22-1 | | | 0914 | | | | | X | X | X | |
| 4 | MW-22-3-Q03 | | | 0814 | | 5 | IV | | X | X | X | |
| 5 | IB-7-8-11-03 | | | | | 2 | III | | X | X | X | |
| 6 | IB-7-8-11-03 | | | 0910 0814 0815 | | 5 | | | X | X | X | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |

SAMPLES COLLECTED BY: Bob Williams
RELABORATED BY: Bob Williams
COURIER AND AIR BILL NUMBER:
RECEIVED BY: Bob Williams
DATE: 8.11.03
TIME: 0729
COOLER TEMPERATURE UPON RECEIPT:
SAMPLE'S CONDITION UPON RECEIPT:

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

1497

HS74579 - 8.11.03

Applied P & Ch Laboratories
Project: JPL, #4697

ATL Work Order: 064876

0001



Table of Contents

ATL Work Order: 064876

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| Method 200.8 | 0018 - 0019 |
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| | |
| | |
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| | |

0002



CLIENT: Applied P & Ch Laboratories

Project: JPL, 4697

Lab Order: 064876

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.



CLIENT: Applied P & Ch Laboratories

Project: JPL, 4697

Lab Order: 064876

Contract No:

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Matrix | Collection Date | Date Received | Date Reported |
|----------------------|-------------------------|---------------|------------------------|----------------------|----------------------|
| 064876-001A | MW-12-3 | Water | 8/11/2003 | 9/22/2003 | 9/26/2003 |
| 064876-002A | MW-12-2 | Water | 8/11/2003 | 9/22/2003 | 9/26/2003 |
| 064876-003A | MW-12-1 | Water | 8/11/2003 | 9/22/2003 | 9/26/2003 |
| 064876-004A | MW-22-3 | Water | 8/11/2003 | 9/22/2003 | 9/26/2003 |
| 064876-005A | MW-22-2 | Water | 8/11/2003 | 9/22/2003 | 9/26/2003 |
| 064876-006A | MW-22-1 | Water | 8/11/2003 | 9/22/2003 | 9/26/2003 |
| 064876-007A | Dupe-5-3-Q03 | Water | 8/11/2003 | 9/22/2003 | 9/26/2003 |
| 064876-008A | EB-7-8-11-03 | Water | 8/11/2003 | 9/22/2003 | 9/26/2003 |



Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710
 Tel: (909) 590-1828 Fax: (909) 590-1498

Subcontract Chain of Custody

Please Print in pen Page 1 of 1

Subcontract Lab: APL Contact: Bachelke Arada Tel #: (562) 989-4045 Fax #: (562) 989-4040
 Address: 3225 Walnut Ave City: Serrano Hill State: CA Zip code: 90827
 APCL Client: # 4697 APCL Contact: Penny Chan Job # _____
 Project Name/Code: JPL Sub Quotation # _____

Due Date: Regular Rush: ___ days ___ hours Sampled by: _____

| Field Sample ID No. | Sample Description | Date Collected | Sample Matrix | Preservation | # of Containers | Analysis Items | White - With report Yellow - Lab copy Pink - Originator |
|---------------------|--------------------|----------------|---------------|------------------|-----------------|----------------|---|
| MW-12-3 | | 8/10/03 | W | HND ₃ | 1 | X (by 2008) | |
| MW-12-2 | | 1124 | | | | | |
| MW-12-1 | | 1144 | | | | | |
| MW-22-3 | | 0741 | | | | | |
| MW-22-2 | | 0813 | | | | | |
| MW-22-1 | | 0914 | | | | | |
| Repe-5-3-Q03 | | 0844 | | | | | |
| EB-7-8-1-03 | | 0710 | | | | | Level 4 pkg + EOD |

QC Requirement: Regular; QA/QC Report; WIP; Raw Data; Extended Raw Data CLP; ACE AFCEE NEESA ___ (E, C or D); Other ___ (Please specify)

Sample Disposal: Return Disposal by APCL Hold for ___ days after receiving date. If not specified, samples will be discarded 45 days after samples are received.

Sample Conditions: Intact; Broken. Cooler Seal: Intact; Broken; None. Tag # _____ Temperature: Room Cold (___ °C)

Relinquished by [Signature] Date/Time 9/22/03 11:00 Received by [Signature] Date/Time 9/22/03 17:12
 Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

APCL USE ONLY Service # _____ Note: _____

Client's understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have been broken.

Method 200.8

Advanced Technology Laboratories

Date: 26-Sep-03

CLIENT: Applied P & Ch Laboratories
Lab Order: 064876
Project: JPL, 4697
Lab ID: 064876-001A

Client Sample ID: MW-12-3
Collection Date: 8/11/2003 11:04:00 AM
Matrix: WATER

| Analyte | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|----------------------|------------------|------|------------------|-----------|-------------|----|----------------------|
| ICP-MS METALS | | | EPA 200.8 | | Analyst: NS | | |
| RunID: ICP4_030923B | QC Batch: R31161 | | | PrepDate: | | | |
| Chromium | 2.4 | | 0.11 | 1.0 | µg/L | 1 | 9/23/2003 12:49:03 P |

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank E - Value above quantitation range
* - Value exceeds Maximum Contaminant Level H-Samples exceed holding time

Page 1 of 8

Results are wet unless otherwise specified

0008



Advanced Technology Laboratories

Date: 26-Sep-03

CLIENT: Applied P & Ch Laboratories
Lab Order: 064876
Project: JPL, 4697
Lab ID: 064876-002A

Client Sample ID: MW-12-2
Collection Date: 8/11/2003 11:24:00 AM
Matrix: WATER

| Analyte | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|----------------------|------------------|------|------------------|-----------|-------------|----|----------------------|
| ICP-MS METALS | | | EPA 200.8 | | Analyst: NS | | |
| RunID: ICP4_030923B | QC Batch: R31161 | | | PrepDate: | | | |
| Chromium | 3.8 | | 0.11 | 1.0 | µg/L | 1 | 9/23/2003 12:51:32 P |

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H-Samples exceed holding time

Results are wet unless otherwise specified

0009



Advanced Technology Laboratories

Date: 26-Sep-03

CLIENT: Applied P & Ch Laboratories
Lab Order: 064876
Project: JPL, 4697
Lab ID: 064876-003A

Client Sample ID: MW-12-1
Collection Date: 8/11/2003 11:44:00 AM
Matrix: WATER

| Analyte | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|----------------------|------------------|------|------------------|-----------|-------|--------------------|----------------------|
| ICP-MS METALS | | | EPA 200.8 | | | Analyst: NS | |
| RunID: ICP4_030923B | QC Batch: R31161 | | | PrepDate: | | | |
| Chromium | 8.0 | | 0.11 | 1.0 | µg/L | 1 | 9/23/2003 12:54:02 P |

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank E - Value above quantitation range
* - Value exceeds Maximum Contaminant Level H-Samples exceed holding time

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Results are wet unless otherwise specified

0010



Advanced Technology Laboratories

Date: 26-Sep-03

CLIENT: Applied P & Ch Laboratories
Lab Order: 064876
Project: JPL, 4697
Lab ID: 064876-004A

Client Sample ID: MW-22-3
Collection Date: 8/11/2003 7:41:00 AM
Matrix: WATER

| Analyte | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|----------------------|-----------------|------|------------------|-----------|-------|--------------------|----------------------|
| ICP-MS METALS | | | EPA 200.8 | | | Analyst: NS | |
| RunID: ICP4_030923B | QC Bach: R31161 | | | PrepDate: | | | |
| Chromium | 2.9 | | 0.11 | 1.0 | µg/L | 1 | 9/23/2003 12:56:32 P |

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank E - Value above quantitation range
* - Value exceeds Maximum Contaminant Level H-Samples exceed holding time

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Results are wet unless otherwise specified

0011



Advanced Technology Laboratories

Date: 26-Sep-03

CLIENT: Applied P & Ch Laboratories
Lab Order: 064876
Project: JPL, 4697
Lab ID: 064876-005A

Client Sample ID: MW-22-2
Collection Date: 8/11/2003 8:13:00 AM
Matrix: WATER

| Analyte | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|----------------------|------------------|------|------------------|-----------|-------|--------------------|----------------------|
| ICP-MS METALS | | | EPA 200.8 | | | Analyst: NS | |
| RunID: ICP4_030923B | QC Batch: R31161 | | | PrepDate: | | | |
| Chromium | 2.7 | | 0.11 | 1.0 | µg/L | 1 | 9/23/2003 12:59:02 P |

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank E - Value above quantitation range
* - Value exceeds Maximum Contaminant Level H-Samples exceed holding time

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Results are wet unless otherwise specified

0012



Advanced Technology Laboratories

Date: 26-Sep-03

CLIENT: Applied P & Ch Laboratories
Lab Order: 064876
Project: JPL, 4697
Lab ID: 064876-006A

Client Sample ID: MW-22-1
Collection Date: 8/11/2003 9:14:00 AM
Matrix: WATER

| Analyte | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|----------------------|------------------|------|------------------|-----------|-------|--------------------|----------------------|
| ICP-MS METALS | | | EPA 200.8 | | | Analyst: NS | |
| RunID: ICP4_030923B | QC Batch: R31161 | | | PrepDate: | | | |
| Chromium | 4.2 | | 0.11 | 1.0 | µg/L | 1 | 9/23/2003 1:01:33 PM |

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank E - Value above quantitation range
* - Value exceeds Maximum Contaminant Level H-Samples exceed holding time

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Results are wet unless otherwise specified

0013



Advanced Technology Laboratories

Date: 26-Sep-03

CLIENT: Applied P & Ch Laboratories
Lab Order: 064876
Project: JPL, 4697
Lab ID: 064876-007A

Client Sample ID: Dupe-5-3-Q03
Collection Date: 8/11/2003 8:44:00 AM
Matrix: WATER

| Analyte | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|----------------------|-----------------|------|------------------|-----------|-------|-------------|----------------------|
| ICP-MS METALS | | | EPA 200.8 | | | Analyst: NS | |
| RunID: ICP4_030923B | QC Bach: R31161 | | | PrepDate: | | | |
| Chromium | 2.5 | | 0.11 | 1.0 | µg/L | 1 | 9/23/2003 1:04:05 PM |

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank E - Value above quantitation range
* - Value exceeds Maximum Contaminant Level H-Samples exceed holding time

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Results are wet unless otherwise specified

0014



Advanced Technology Laboratories

Date: 26-Sep-03

CLIENT: Applied P & Ch Laboratories
Lab Order: 064876
Project: JPL, 4697
Lab ID: 064876-008A

Client Sample ID: EB-7-8-11-03
Collection Date: 8/11/2003 9:10:00 AM
Matrix: WATER

| Analyte | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|----------------------|-----------------|------|------------------|-----------|-------|--------------------|----------------------|
| ICP-MS METALS | | | EPA 200.8 | | | Analyst: NS | |
| RunID: ICP4_030923B | QC Bach: R31161 | | | PrepDate: | | | |
| Chromium | ND | | 0.11 | 1.0 | µg/L | 1 | 9/23/2003 1:06:36 PM |

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank E - Value above quantitation range
* - Value exceeds Maximum Contaminant Level H-Samples exceed holding time

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Results are wet unless otherwise specified

0015





Advanced Technology Laboratories

Advanced Technology
Laboratories

CLIENT: Applied P & Ch Laboratories
Work Order: 064876
Project: JPL, 4697

Date: 26-Sep-03

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W

| | | | | | | | | | | | |
|----------------------|------------------|-------------------|-------------|--------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-R31161 | SampType: MBLK | TestCode: 200.8_W | Units: µg/L | Prep Date: | Run ID: ICP4_030923B | | | | | | |
| Client ID: ZZZZZ | Batch ID: R31161 | TestNo: EPA 200.8 | | Analysis Date: 9/23/2003 | SeqNo: 465456 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chromium | ND | 0.50 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------|------------------|-------------------|-------------|--------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-R31161 | SampType: LCS | TestCode: 200.8_W | Units: µg/L | Prep Date: | Run ID: ICP4_030923B | | | | | | |
| Client ID: ZZZZZ | Batch ID: R31161 | TestNo: EPA 200.8 | | Analysis Date: 9/23/2003 | SeqNo: 465455 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chromium | 10.01 | 0.50 | 10 | 0 | 100 | 85 | 115 | 0 | 0 | 0 | |

| | | | | | | | | | | | |
|--------------------------|------------------|-------------------|-------------|--------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 064877-005AMS | SampType: MS | TestCode: 200.8_W | Units: µg/L | Prep Date: | Run ID: ICP4_030923B | | | | | | |
| Client ID: ZZZZZ | Batch ID: R31161 | TestNo: EPA 200.8 | | Analysis Date: 9/23/2003 | SeqNo: 465449 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chromium | 10.73 | 0.50 | 10 | 2.674 | 80.6 | 80 | 120 | 0 | 0 | 0 | |

| | | | | | | | | | | | |
|---------------------------|------------------|-------------------|-------------|--------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 064877-005AMSD | SampType: MSD | TestCode: 200.8_W | Units: µg/L | Prep Date: | Run ID: ICP4_030923B | | | | | | |
| Client ID: ZZZZZ | Batch ID: R31161 | TestNo: EPA 200.8 | | Analysis Date: 9/23/2003 | SeqNo: 465450 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chromium | 10.58 | 0.50 | 10 | 2.674 | 79.1 | 80 | 120 | 10.73 | 1.40 | 20 | S |

| | | | | | | | | | | | |
|---------------------------|------------------|-------------------|-------------|--------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 064877-002ADUP | SampType: DUP | TestCode: 200.8_W | Units: µg/L | Prep Date: | Run ID: ICP4_030923B | | | | | | |
| Client ID: ZZZZZ | Batch ID: R31161 | TestNo: EPA 200.8 | | Analysis Date: 9/23/2003 | SeqNo: 465457 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chromium | 3.143 | 1.0 | 0 | 0 | 0 | 0 | 0 | 3.571 | 12.7 | 30 | |

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
 DO - Surrogate dilute out
 H - Sample exceeded holding time
 Calculations are based on raw values

0016



CLIENT: Applied P & Ch Laboratories
Work Order: 064876
Project: JPL, 4697

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W

| | | | | | | | | | | | |
|---------------------------|------------------|-------------------|-------------|--------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 064877-005ADUP | SampType: DUP | TestCode: 200.8_W | Units: µg/L | Prep Date: | Run ID: ICP4_030923B | | | | | | |
| Client ID: ZZZZZ | Batch ID: R31161 | TestNo: EPA 200.8 | | Analysis Date: 9/23/2003 | SeqNo: 465458 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chromium | 2.635 | 1.0 | 0 | 0 | 0 | 0 | 0 | 2.674 | 1.47 | 30 | |

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
 Calculations are based on raw values
 DO - Surrogate dilute out
 H - Sample exceeded holding time

0017

Test Code: 200.8_W

Test Number: EPA 200.8

Test Name: ICPMS METALS

Matrix: Aqueous Units: µg/L

**METHOD DETECTION /
REPORTING LIMITS**

Updated: 13-Feb-03

| Type | Analyte | MDL | PQL |
|------|------------|--------|-----|
| A | Aluminum | 1.66 | 10 |
| A | Antimony | 0.0309 | 0.5 |
| A | Arsenic | 0.0309 | 1 |
| A | Barium | 0.0638 | 1 |
| A | Beryllium | 0.0349 | 0.5 |
| A | Cadmium | 0.0319 | 0.5 |
| A | Calcium | 10.5 | 50 |
| A | Chromium | 0.111 | 0.5 |
| A | Cobalt | 0.0353 | 0.5 |
| A | Copper | 0.0785 | 1 |
| A | Iron | 4.73 | 10 |
| A | Lead | 0.134 | 1 |
| A | Magnesium | 7.09 | 50 |
| A | Manganese | 0.216 | 1 |
| A | Mercury | 0.467 | 1 |
| A | Molybdenum | 0.0409 | 0.5 |
| A | Nickel | 0.0711 | 1 |
| A | Potassium | 8.66 | 50 |
| A | Selenium | 0.188 | 0.5 |
| A | Silver | 0.0377 | 0.5 |
| A | Sodium | 9.70 | 50 |
| A | Thallium | 0.0304 | 0.5 |
| A | Tin | 5.00 | 10 |
| A | Vanadium | 0.0606 | 1 |
| A | Zinc | 3.34 | 10 |



(EPA 200.8) - INITIAL CALIBRATION

Instrument ID: ICP4

Date(s) Analyzed: 09/23/03

Initial Calibration:

| COMPOUND | INTENSITY | | | | r2 |
|----------|-----------|-------|--------|--------|----------|
| | STD1 | STD2 | STD3 | STD4 | |
| CHROMIUM | 14298 | 59237 | 109122 | 206489 | 0.999987 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Standard Concentration | 0.5 ppb | 5 ppb | 10 ppb | 20 ppb |
|------------------------|------------|------------|------------|------------|
| Standard ID: | MST030923E | MST030923D | MST030923C | MST030923B |

Calibration Acceptance Criteria: > 0.995 Correlation



ATL Number: 064876

(EPA 200.8) BLANK *

Instrument ID: ICP 4
Date Digested: N/A
Digestion Method: N/A

Dilution Factor: 1
Matrix: Water
Date Analyzed: 09/23/2003

QC Batch Number: R31161

| Analyte | DLR | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | C | M |
|----------|-----|-----------------------------|---|-------------------------------------|---|-------|---|-------|---|-------------------|---|---|
| | | | | 1 | C | 2 | C | 3 | C | | | |
| Chromium | 1 | 0.085 | | 0.094 | | 0.122 | | 0.132 | | 0.049 | | |
| | | | | | | | | | | | | |
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ATL Number: 064876

(EPA 200.8) BLANK *

Instrument ID: ICP 4
Date Digested: N/A
Digestion Method: N/A

Dilution Factor: 1
Matrix: Water
Date Analyzed: 09/23/2003

QC Batch Number: R31161

| Analyte | DLR | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | C | M |
|----------|-----|-----------------------------|---|-------------------------------------|---|---|---|---|---|-------------------|---|---|
| | | | | 4 | C | 5 | C | 6 | C | | | |
| Chromium | 1 | 0.085 | | 0.092 | | | | | | 0.049 | | |
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ATL Number: 064876

(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERIFICATION
(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 08/14/2003

| | | |
|--------------------------------------|--------------------|--|
| Initial Calibration Verification: | <u>LEEMAN LABS</u> | <u>Standard Code:</u> <u>MST030923G</u> |
| Continuing Calibration Verification: | <u>LEEMAN LABS</u> | <u>MST030923G</u> |

Concentration Units: ug/L

| Analyte | Initial Calibration | | | Continuing Calibration | | | | |
|----------|---------------------|-------|-------|------------------------|---------------|-------|---------------|-------|
| | True | Found | %R(1) | True | Found CCV1 | %R(1) | Found CCV2 | %R(1) |
| Chromium | 10.0 | 9.995 | 100 | 10.0 | 9.932 | 99 | 9.900 | 99 |
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ICV Limits: 90 -110%
CCV Limits: 85 -115%



ATL Number: 064876

(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERIFICATION
(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 09/23/2003

Initial Calibration Verification: LEEMAN LABS

Standard Code:
MST030923G

Continuing Calibration Verification: LEEMAN LABS

MST030923G

Concentration Units: ug/L

| Analyte | Initial Calibration | | | Continuing Calibration | | | | |
|----------|---------------------|-------|-------|------------------------|---------------|-------|---------------|-------|
| | True | Found | %R(1) | True | Found CCV3 | %R(1) | Found CCV4 | %R(1) |
| Chromium | 10.0 | 9.995 | 100 | 10.0 | 9.794 | 98 | 9.917 | 99 |
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ICV Limits: 90 -110%
CCV Limits: 85 -115%

0023



ATL Number: 064876

Instrument ID: ICP4 Internal Standard ID: MST030815G

Date Analyzed: 09/23/2003 Standard Concentration: 50 ug/L

QC Batch: R31161

| Lab ID | Sample Description | Lithium | | Sc | | Ge | | In | | Terbium | |
|-------------|--------------------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|
| | | Intensity | % Rec | Intensity | % Rec | Intensity | % Rec | Intensity | % Rec | Intensity | % Rec |
| | Calibration Blank | 698771 | ---- | | ---- | | ---- | | ---- | | ---- |
| MB-R31161 | | | | 710116 | 102 | | | | | | |
| LCS-R31161 | | | | 710058 | 102 | | | | | | |
| 064876-001A | | | | 810683 | 116 | | | | | | |
| 064876-002A | | | | 823788 | 118 | | | | | | |
| 064876-003A | | | | 798816 | 114 | | | | | | |
| 064876-004A | | | | 803457 | 115 | | | | | | |
| 064876-005A | | | | 814129 | 117 | | | | | | |
| 064876-006A | | | | 849817 | 122 | | | | | | |
| 064876-007A | | | | 780987 | 112 | | | | | | |
| 064876-008A | | | | 678523 | 97 | | | | | | |
| 064877-001A | | | | 814895 | 117 | | | | | | |
| 064877-002A | | | | 767143 | 110 | | | | | | |
| 064877-003A | | | | 759470 | 109 | | | | | | |
| 064877-004A | | | | 811005 | 116 | | | | | | |
| 064877-005A | | | | 780936 | 112 | | | | | | |
| 064877-006A | | | | 748101 | 107 | | | | | | |
| 064877-007A | | | | 748466 | 107 | | | | | | |
| 064877-008A | | | | 754225 | 108 | | | | | | |
| 064877-009A | | | | 830176 | 119 | | | | | | |
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* Outside Acceptance Criteria
Acceptance Criteria: 60 - 125%



ATL Number: 064876

Instrument ID: ICP4 Internal Standard ID: MSTI030815G

Date Analyzed: 09/23/2003 Standard Concentration: 50 ug/L

QC Batch: R31161

| Lab ID | Sample Description | Lithium | | Sc | | Ge | | In | | Terbium | |
|----------------|--------------------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|
| | | Intensity | % Rec | Intensity | % Rec | Intensity | % Rec | Intensity | % Rec | Intensity | % Rec |
| | Calibration Blank | | --- | 698771 | --- | | --- | | --- | | --- |
| 064877-002ADUP | | | | 757707 | 108 | | | | | | |
| 064877-005ADUP | | | | 791055 | 113 | | | | | | |
| 064877-005AMS | | | | 829696 | 119 | | | | | | |
| 064877-005AMSD | | | | 809899 | 116 | | | | | | |
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* Outside Acceptance Criteria
 Acceptance Criteria: 60 - 125%



Sample/Batch Report

User Name: Nancy

Computer Name: ICPMS PE 6100

Sample File: D:\ELAN\Elandata03Sept\Sample\2003\September\092303-2.sam

Report Date/Time: Tuesday, September 23, 2003 14:36:11

| A/S Loc. | Batch ID | Sample ID | Description | Sample Type | Init. Quant. | Prep. Vol. | Aliquot Vol. | Diluted Vol. | Solids Ratio |
|----------|----------|------------------------|-------------|-------------|--------------|------------|--------------|--------------|--------------|
| 7 | | ICV | | | | | | | |
| 1 | | ICB | | | | | | | |
| 9 | | MB- | | | | | | | |
| 10 | | LCS- | > R31161 | NS 9/26/03 | | | | | |
| 11 | | 064876-001A | | | | | | | |
| 12 | | 064876-002A | | | | | | | |
| 13 | | 064876-003A | | | | | | | |
| 14 | | 064876-004A | 064876-004A | NS 9/26/03 | | | | | |
| 15 | | 064876-005A | | | | | | | |
| 16 | | 064876-006A | | | | | | | |
| 17 | | 064876-007A | | | | | | | |
| 18 | | 064876-008A | | | | | | | |
| 7 | | CCV | | | | | | | |
| 8 | | CCB | | | | | | | |
| 19 | | 064877-001A | | | | | | | |
| 20 | | 064877-002A | | | | | | | |
| 21 | | 064877-002ADUP | | | | | | | |
| 22 | | 064877-003A | | | | | | | |
| 23 | | 064877-004A | | | | | | | |
| 24 | | 064877-005A | | | | | | | |
| 25 | | 064877-005ADUP | | | | | | | |
| 26 | | 064877-006A | | | | | | | |
| 27 | | 064877-007A | | | | | | | |
| 28 | | 064877-008A | | | | | | | |
| 7 | | CCV | | | | | | | |
| 8 | | CCB | | | | | | | |
| 29 | | 064877-009A | | | | | | | |
| 30 | | 064877-005AMS | | | | | | | |
| 31 | | 064877-005AMSD | | | | | | | |
| 7 | | CCV | | | | | | | |
| 8 | | CCB | | | | | | | |
| 32 | | 064877-005AMS | | | | | | | |
| 7 | | CCV | | | | | | | |
| 8 | | CCB | | | | | | | |

CAL: MST030923 B/20
 C/10
 D/5
 E/0.5

IW/KW: MST030923G

LCS: MST030923F

MS/MED: MST030923A

ICP4 0026

NS, 9/23/03

Instrument Tuning Report

File Name: 092303.tun
File Path: D:\ELAN\Eladata03Sept\TUNING\2003\September

| Analyte | Exact Mass | Meas. Mass | Mass DAC | Res. DAC | Meas. Pk. Width | Custom Res. |
|---------|------------|------------|----------|----------|-----------------|-------------|
| Be | 9.012 | 9.026 | 2046 | 2040 | 0.708 | |
| Mg | 23.985 | 23.979 | 5706 | 2020 | 0.714 | |
| Rh | 102.905 | 102.879 | 24969 | 1965 | 0.706 | |
| Ce | 139.905 | 139.879 | 33967 | 2025 | 0.718 | |
| Pb | 207.977 | 207.979 | 50416 | 2270 | 0.733 | |
| U | 238.050 | 238.026 | 57616 | 2435 | 0.752 | |

ELAN Instrument Control Session

File Edit Analysis Database Window Help



Date Only Method - c:\elandata\Method\ATL Methods 030317\ATL-TUNING250.mth

Tuning Processing Equation Calibration Sampling Data

Sweeps / Reading: Est. Reading Time: 00:00:17.8
 Readings / Replicate: Est. Replicate Time: 00:00:23.175
 Replicates: Est. Sample Time: 00:00:05.0
 Tuning File:
 Optimization File: Enable Storage

| | Analyte El | Begin Mass (amu) | End Mass (amu) | Scan Mode (I) | MCA Channels | Dwell Time per AMU (sec) | Inte |
|---|------------|------------------|----------------|---------------|--------------|--------------------------|------|
| 1 | | 5 | 10 | Scanning | 20 | 20 | 4200 |
| 2 | | 22 | 26 | Scanning | 20 | 20 | 3500 |
| 3 | | 102 | 104 | Scanning | 20 | 20 | 2100 |
| 4 | | 139 | 141 | Scanning | 20 | 20 | 2100 |
| 5 | | 206 | 209 | Scanning | 20 | 20 | 2800 |

Tuning - D:\ELAN\elandata03Sept\TUNING\2003\September\092303.tun

Peak Width Only
 Peak Search Window (amu): Resolution (Dac):

| | Analyte | Mass (amu) | Measured Mass (amu) | Mass Calibration Dac Value | Resolution Dac Value | Measured Width |
|---|---------|------------|---------------------|----------------------------|----------------------|----------------|
| 1 | Be | 9.0122 | 9.02575 | 2046 | 2040 | 0.708 |
| 2 | Mg | 23.985 | 23.9787 | 5706 | 2020 | 0.714 |
| 3 | Rh | 102.905 | 102.879 | 24969 | 1965 | 0.706 |
| 4 | Ce | 139.905 | 139.879 | 33967 | 2025 | 0.716 |
| 5 | Pb | 207.977 | 207.979 | 50416 | 2270 | 0.733 |
| 6 | U | 238.05 | 238.026 | 57616 | 2435 | 0.752 |

Daily Performance Report

Sample ID: 092303-daily

Sample Date/Time: Tuesday, September 23, 2003 10:10:27

Sample Description:

Method File: c:\elandata\Method\Daily.mth

Dataset File: d:\elan\elandata03sept\daily performance\2003\september\092303-daily.048

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Dual Detector Mode: Pulse

Acq. Dead Time(ns): 35

Current Dead Time (ns): 35

Summary

| Analyte | Mass | Meas. Intens. Mean | Net Intens. Mean | Net Intens. SD | Net Intens. RSD |
|---------|-------|--------------------|------------------|----------------|-----------------|
| Mg | 24.0 | 51598.6 | 51598.553 | 1442.745 | 2.8 |
| Rh | 102.9 | 239540.8 | 239540.845 | 3819.398 | 1.6 |
| In | 114.9 | 309648.9 | 309648.912 | 630.035 | 0.2 |
| Pb | 208.0 | 162856.5 | 162856.524 | 594.324 | 0.4 |
| [> Ba | 137.9 | 240247.1 | 240247.074 | 7546.798 | 3.1 |
| [Ba++ | 69.0 | 7219.1 | 0.030 | 0.001 | 2.7 |
| [> Ce | 139.9 | 279193.1 | 279193.075 | 8640.388 | 3.1 |
| [CeO | 155.9 | 7942.8 | 0.028 | 0.001 | 3.7 |
| Bkgd | 220.0 | 7.3 | 7.250 | 3.182 | 43.9 |

Current Optimization File Data

| Current Value | Description |
|---------------|-------------------------|
| 0.81 | Nebulizer Gas Flow |
| 8.50 | Lens Voltage |
| 1000.00 | ICP RF Power |
| -2100.00 | Analog Stage Voltage |
| 2000.00 | Pulse Stage Voltage |
| 85.00 | Discriminator Threshold |
| -1.50 | AC Rod Offset |
| 60.00 | Service DAC 1 |
| 0.00 | Quadrupole Rod Offset |

Current Autolens Data

| Analyte | Mass | Num of Pts | DAC Value | Maximum Intensity |
|---------|------|------------|-----------|-------------------|
| Be | 9 | 0 | | |
| Co | 59 | 0 | | |
| In | 115 | 0 | | |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 12:06:20

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\Blank.001

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: Blank

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|----------|-----------|
| Li | 7 | | 115366 | 1.1 | | ug/L | % |
| Ge | 72 | | 145362 | 0.6 | | ug/L | % |
| Sc-1 | 45 | | 698771 | 1.0 | | ug/L | % |
| Cr | 52 | | 8432 | 2.3 | | ug/L | % |
| In | 115 | | 1346331 | 0.7 | | ug/L | % |
| Tb | 159 | | 1589758 | 0.1 | | ug/L | % |
| Sc | 45 | | 698771 | 1.0 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 12:08:49

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\Standard 1.002

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: Standard 1

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 115719 | 0.3 | | ug/L | % |
| Ge | 72 | 145362 | 145350 | 0.5 | | ug/L | % |
| Sc-1 | 45 | 698771 | 709446 | 0.7 | | ug/L | % |
| Cr | 52 | 8432 | 14298 | 1.5 | 0.500 | 0.017 ug/L | 3.4 % |
| In | 115 | 1346331 | 1339708 | 0.5 | | ug/L | % |
| Tb | 159 | 1589758 | 1581740 | 0.6 | | ug/L | % |
| Sc | 45 | 698771 | 709446 | 0.7 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 12:11:34

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\Standard 2.003

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: Standard 2

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 113333 | 1.0 | | ug/L | % |
| Ge | 72 | 145362 | 145249 | 0.4 | | ug/L | % |
| Sc-1 | 45 | 698771 | 701327 | 0.2 | | ug/L | % |
| Cr | 52 | 8432 | 59237 | 0.6 | 4.994 | 0.044 ug/L | 0.9 % |
| In | 115 | 1346331 | 1344233 | 0.5 | | ug/L | % |
| Tb | 159 | 1589758 | 1590466 | 1.0 | | ug/L | % |
| Sc | 45 | 698771 | 701327 | 0.2 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 12:14:19

Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\September\092303-2\Standard 3.004

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: Standard 3

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 114526 | 2.3 | | ug/L | % |
| Ge | 72 | 145362 | 146155 | 0.7 | | ug/L | % |
| Sc-1 | 45 | 698771 | 696562 | 1.0 | | ug/L | % |
| Cr | 52 | 8432 | 109122 | 0.3 | 9.995 | 0.076 ug/L | 0.8 % |
| In | 115 | 1346331 | 1341320 | 1.1 | | ug/L | % |
| Tb | 159 | 1589758 | 1573802 | 0.2 | | ug/L | % |
| Sc | 45 | 698771 | 696562 | 1.0 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 12:17:06

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\Standard 4.005

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

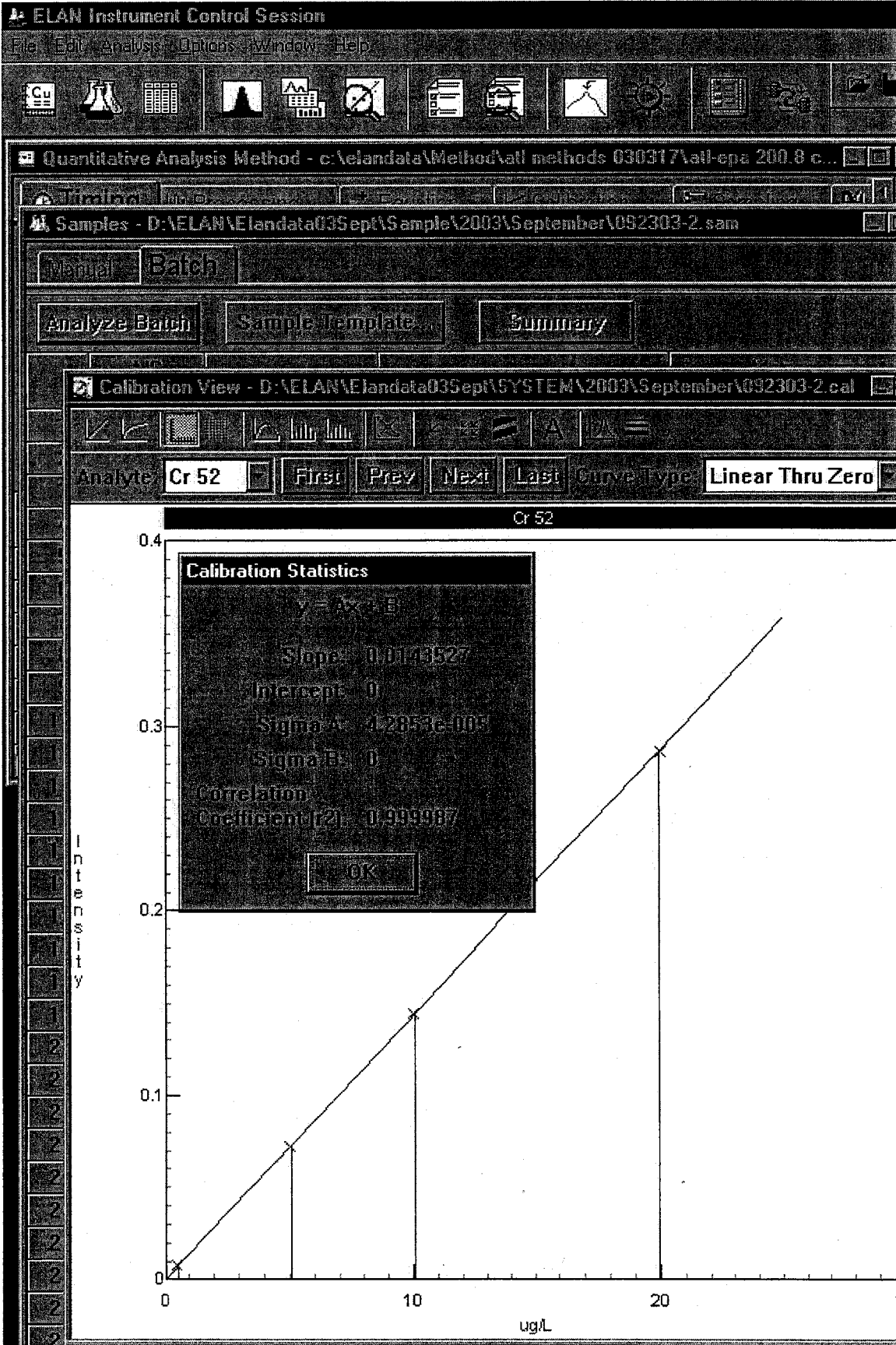
Number of Replicates: 3

Sample ID: Standard 4

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 111333 | 1.3 | | ug/L | % |
| Ge | 72 | 145362 | 145284 | 0.4 | | ug/L | % |
| Sc-1 | 45 | 698771 | 691988 | 0.7 | | ug/L | % |
| Cr | 52 | 8432 | 206489 | 0.9 | 19.950 | 0.161 ug/L | 0.8 % |
| In | 115 | 1346331 | 1344910 | 0.7 | | ug/L | % |
| Tb | 159 | 1589758 | 1573440 | 0.7 | | ug/L | % |
| Sc | 45 | 698771 | 691988 | 0.7 | | ug/L | % |



Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 12:19:54

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\ICV.006

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apci.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: ICV

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 112992 | 1.0 | | ug/L | % |
| Ge | 72 | 145362 | 146151 | 1.3 | | ug/L | % |
| Sc-1 | 45 | 698771 | 701178 | 0.3 | | ug/L | % |
| Cr | 52 | 8432 | 109050 | 0.8 | 9.995 | 0.055 ug/L | 0.5 % |
| In | 115 | 1346331 | 1349453 | 1.1 | | ug/L | % |
| Tb | 159 | 1589758 | 1589079 | 1.5 | | ug/L | % |
| Sc | 45 | 698771 | 701178 | 0.3 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 12:22:25

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\ICB.007

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: ICB

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 113127 | 0.6 | | ug/L | % |
| Ge | 72 | 145362 | 145729 | 0.7 | | ug/L | % |
| Sc-1 | 45 | 698771 | 699375 | 0.7 | | ug/L | % |
| Cr | 52 | 8432 | 9298 | 2.8 | 0.085 | 0.024 ug/L | 28.2 % |
| In | 115 | 1346331 | 1334985 | 0.8 | | ug/L | % |
| Tb | 159 | 1589758 | 1590522 | 1.1 | | ug/L | % |
| Sc | 45 | 698771 | 699375 | 0.7 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 12:44:04

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\MB-.008

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: MB- R31161 NS 9/26/03

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 112326 | 0.6 | | ug/L | % |
| Ge | 72 | 145362 | 149245 | 0.5 | | ug/L | % |
| Sc-1 | 45 | 698771 | 710116 | 0.9 | | ug/L | % |
| Cr | 52 | 8432 | 9067 | 2.8 | 0.049 | 0.030 ug/L | 62.1 % |
| In | 115 | 1346331 | 1364934 | 0.1 | | ug/L | % |
| Tb | 159 | 1589758 | 1600736 | 1.7 | | ug/L | % |
| Sc | 45 | 698771 | 710116 | 0.9 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 12:46:35

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\LCS-.009

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: LCS- R31161 NS 9/26/03

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 111953 | 1.0 | | ug/L | % |
| Ge | 72 | 145362 | 147296 | 1.1 | | ug/L | % |
| Sc-1 | 45 | 698771 | 710058 | 0.3 | | ug/L | % |
| Cr | 52 | 8432 | 110594 | 0.7 | 10.011 | 0.079 ug/L | 0.8 % |
| In | 115 | 1346331 | 1356340 | 0.3 | | ug/L | % |
| Tb | 159 | 1589758 | 1590089 | 0.5 | | ug/L | % |
| Sc | 45 | 698771 | 710058 | 0.3 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 12:49:03

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\064876-001A.010

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064876-001A

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 106656 | 0.6 | | ug/L | % |
| Ge | 72 | 145362 | 156342 | 1.4 | | ug/L | % |
| [> Sc-1 | 45 | 698771 | 810683 | 0.9 | | ug/L | % |
| [Cr | 52 | 8432 | 38184 | 1.8 | 2.441 | 0.033 ug/L | 1.4 % |
| In | 115 | 1346331 | 1427131 | 0.8 | | ug/L | % |
| Tb | 159 | 1589758 | 1647052 | 0.8 | | ug/L | % |
| Sc | 45 | 698771 | 810683 | 0.9 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 12:51:32

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\064876-002A.011

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064876-002A

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|--------------|------------|-----------|
| Li | 7 | 115366 | 113213 | 1.9 | | ug/L | % |
| Ge | 72 | 145362 | 154276 | 0.5 | | ug/L | % |
| Sc-1 | 45 | 698771 | 823788 | 0.1 | | ug/L | % |
| Cr | 52 | 8432 | 54442 | 1.5 | 3.764 | 0.063 ug/L | 1.7 % |
| In | 115 | 1346331 | 1397846 | 2.3 | | ug/L | % |
| Tb | 159 | 1589758 | 1626402 | 0.9 | | ug/L | % |
| Sc | 45 | 698771 | 823788 | 0.1 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 12:54:02

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\064876-003A.012

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064876-003A

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 119020 | 1.2 | | ug/L | % |
| Ge | 72 | 145362 | 153417 | 0.7 | | ug/L | % |
| [> Sc-1 | 45 | 698771 | 798816 | 2.0 | | ug/L | % |
| [Cr | 52 | 8432 | 101283 | 0.5 | 7.996 | 0.213 ug/L | 2.7 % |
| In | 115 | 1346331 | 1378352 | 1.6 | | ug/L | % |
| Tb | 159 | 1589758 | 1595905 | 1.3 | | ug/L | % |
| Sc | 45 | 698771 | 798816 | 2.0 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 12:56:32

Dataset File: D:\ELAN\Elan\data03\Sept\Dataset\2003\September\092303-2\064867-004A.013

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: ~~064867-004A~~

064876-004A NS 9/23/03

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 113336 | 0.4 | | ug/L | % |
| Ge | 72 | 145362 | 151972 | 0.4 | | ug/L | % |
| Sc-1 | 45 | 698771 | 803457 | 1.4 | | ug/L | % |
| Cr | 52 | 8432 | 43130 | 0.4 | 2.900 | 0.039 ug/L | 1.3 % |
| In | 115 | 1346331 | 1356165 | 0.6 | | ug/L | % |
| Tb | 159 | 1589758 | 1585972 | 0.5 | | ug/L | % |
| Sc | 45 | 698771 | 803457 | 1.4 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 12:59:02

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\064876-005A.014

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064876-005A

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|--------------|------------|-----------|
| Li | 7 | 115366 | 109112 | 0.7 | | ug/L | % |
| Ge | 72 | 145362 | 151284 | 1.1 | | ug/L | % |
| [> Sc-1 | 45 | 698771 | 814129 | 0.9 | | ug/L | % |
| [Cr | 52 | 8432 | 41190 | 0.4 | 2.685 | 0.043 ug/L | 1.6 % |
| In | 115 | 1346331 | 1348220 | 0.9 | | ug/L | % |
| Tb | 159 | 1589758 | 1564036 | 0.2 | | ug/L | % |
| Sc | 45 | 698771 | 814129 | 0.9 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:01:33

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\064876-006A.015

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064876-006A

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|----------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 118513 | 0.9 | | ug/L | % |
| Ge | 72 | 145362 | 146389 | 0.4 | | ug/L | % |
| [> Sc-1 | 45 | 698771 | 849817 | 1.4 | | ug/L | % |
| [Cr | 52 | 8432 | 61065 | 2.4 | 4.165 | 0.068 ug/L | 1.6 % |
| In | 115 | 1346331 | 1313061 | 0.7 | | ug/L | % |
| Tb | 159 | 1589758 | 1524392 | 0.4 | | ug/L | % |
| Sc | 45 | 698771 | 849817 | 1.4 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:04:05

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\064876-007A.016

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064876-007A

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 113042 | 1.6 | | ug/L | % |
| Ge | 72 | 145362 | 145009 | 1.3 | | ug/L | % |
| [> Sc-1 | 45 | 698771 | 780987 | 0.7 | | ug/L | % |
| [Cr | 52 | 8432 | 36923 | 0.9 | 2.453 | 0.048 ug/L | 2.0 % |
| In | 115 | 1346331 | 1307705 | 0.8 | | ug/L | % |
| Tb | 159 | 1589758 | 1507556 | 1.2 | | ug/L | % |
| Sc | 45 | 698771 | 780987 | 0.7 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:06:36

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\064876-008A.017

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064876-008A

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 108430 | 2.1 | | ug/L | % |
| Ge | 72 | 145362 | 144480 | 0.4 | | ug/L | % |
| Sc-1 | 45 | 698771 | 678523 | 0.2 | | ug/L | % |
| Cr | 52 | 8432 | 8724 | 1.4 | 0.055 | 0.012 ug/L | 21.1 % |
| In | 115 | 1346331 | 1338382 | 0.4 | | ug/L | % |
| Tb | 159 | 1589758 | 1555549 | 1.3 | | ug/L | % |
| Sc | 45 | 698771 | 678523 | 0.2 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:09:09

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\CCV.018

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: **CCV**

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|--------------|------------|-----------|
| Li | 7 | 115366 | 115096 | 0.4 | | ug/L | % |
| Ge | 72 | 145362 | 136487 | 0.4 | | ug/L | % |
| Sc-1 | 45 | 698771 | 654341 | 0.9 | | ug/L | % |
| Cr | 52 | 8432 | 101170 | 0.7 | 9.932 | 0.032 ug/L | 0.3 % |
| In | 115 | 1346331 | 1259927 | 1.1 | | ug/L | % |
| Tb | 159 | 1589758 | 1486961 | 0.8 | | ug/L | % |
| Sc | 45 | 698771 | 654341 | 0.9 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:11:44

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\CCB.019

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: CCB

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 112845 | 1.4 | | ug/L | % |
| Ge | 72 | 145362 | 139415 | 0.7 | | ug/L | % |
| Sc-1 | 45 | 698771 | 669747 | 1.2 | | ug/L | % |
| Cr | 52 | 8432 | 8981 | 2.5 | 0.094 | 0.025 ug/L | 26.2 % |
| In | 115 | 1346331 | 1282368 | 0.7 | | ug/L | % |
| Tb | 159 | 1589758 | 1534612 | 1.7 | | ug/L | % |
| Sc | 45 | 698771 | 669747 | 1.2 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:14:18

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\064877-001A.020

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064877-001A

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 116211 | 1.1 | | ug/L | % |
| Ge | 72 | 145362 | 146277 | 0.9 | | ug/L | % |
| Sc-1 | 45 | 698771 | 814895 | 0.5 | | ug/L | % |
| Cr | 52 | 8432 | 132671 | 1.4 | 10.502 | 0.099 ug/L | 0.9 % |
| In | 115 | 1346331 | 1299543 | 0.7 | | ug/L | % |
| Tb | 159 | 1589758 | 1536225 | 0.3 | | ug/L | % |
| Sc | 45 | 698771 | 814895 | 0.5 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:16:50

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\064877-002A.021

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064877-002A

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 116711 | 1.3 | | ug/L | % |
| Ge | 72 | 145362 | 145596 | 0.4 | | ug/L | % |
| Sc-1 | 45 | 698771 | 767143 | 0.6 | | ug/L | % |
| Cr | 52 | 8432 | 48581 | 0.8 | 3.571 | 0.015 ug/L | 0.4 % |
| In | 115 | 1346331 | 1308583 | 0.1 | | ug/L | % |
| Tb | 159 | 1589758 | 1536150 | 1.0 | | ug/L | % |
| Sc | 45 | 698771 | 767143 | 0.6 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:19:24

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\064877-002ADUP.022

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064877-002ADUP

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 114108 | 1.0 | | ug/L | % |
| Ge | 72 | 145362 | 146810 | 0.2 | | ug/L | % |
| Sc-1 | 45 | 698771 | 757707 | 1.1 | | ug/L | % |
| Cr | 52 | 8432 | 43319 | 1.5 | 3.143 | 0.045 ug/L | 1.4 % |
| In | 115 | 1346331 | 1307147 | 0.3 | | ug/L | % |
| Tb | 159 | 1589758 | 1517184 | 0.2 | | ug/L | % |
| Sc | 45 | 698771 | 757707 | 1.1 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:21:58

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\064877-003A.023

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064877-003A

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 114562 | 1.6 | | ug/L | % |
| Ge | 72 | 145362 | 149468 | 0.7 | | ug/L | % |
| [> Sc-1 | 45 | 698771 | 759470 | 0.5 | | ug/L | % |
| [Cr | 52 | 8432 | 43038 | 0.7 | 3.108 | 0.045 ug/L | 1.4 % |
| In | 115 | 1346331 | 1328070 | 1.6 | | ug/L | % |
| Tb | 159 | 1589758 | 1543173 | 0.6 | | ug/L | % |
| Sc | 45 | 698771 | 759470 | 0.5 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:24:32

Dataset File: D:\ELAN\Elldata03Sept\Dataset\2003\September\092303-2\064877-004A.024

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064877-004A

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 111218 | 0.9 | | ug/L | % |
| Ge | 72 | 145362 | 143462 | 0.9 | | ug/L | % |
| Sc-1 | 45 | 698771 | 811005 | 0.3 | | ug/L | % |
| Cr | 52 | 8432 | 108334 | 0.6 | 8.466 | 0.040 ug/L | 0.5 % |
| In | 115 | 1346331 | 1270887 | 0.9 | | ug/L | % |
| Tb | 159 | 1589758 | 1476815 | 0.5 | | ug/L | % |
| Sc | 45 | 698771 | 811005 | 0.3 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:27:03

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\064877-005A.025

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064877-005A

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 112049 | 1.4 | | ug/L | % |
| Ge | 72 | 145362 | 142362 | 0.7 | | ug/L | % |
| Sc-1 | 45 | 698771 | 780936 | 0.9 | | ug/L | % |
| Cr | 52 | 8432 | 39400 | 1.9 | 2.674 | 0.042 ug/L | 1.6 % |
| In | 115 | 1346331 | 1269954 | 1.3 | | ug/L | % |
| Tb | 159 | 1589758 | 1479664 | 1.0 | | ug/L | % |
| Sc | 45 | 698771 | 780936 | 0.9 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:29:30

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\064877-005ADUP.026

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064877-005ADUP

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 110999 | 1.2 | | ug/L | % |
| Ge | 72 | 145362 | 141594 | 1.1 | | ug/L | % |
| [> Sc-1 | 45 | 698771 | 791055 | 1.5 | | ug/L | % |
| [Cr | 52 | 8432 | 39458 | 1.3 | 2.635 | 0.040 ug/L | 1.5 % |
| In | 115 | 1346331 | 1275457 | 1.0 | | ug/L | % |
| Tb | 159 | 1589758 | 1484176 | 0.4 | | ug/L | % |
| Sc | 45 | 698771 | 791055 | 1.5 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:31:58

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\064877-006A.027

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064877-006A

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 108126 | 1.3 | | ug/L | % |
| Ge | 72 | 145362 | 142299 | 0.3 | | ug/L | % |
| Sc-1 | 45 | 698771 | 748101 | 0.5 | | ug/L | % |
| Cr | 52 | 8432 | 58163 | 1.0 | 4.576 | 0.054 ug/L | 1.2 % |
| In | 115 | 1346331 | 1279582 | 1.0 | | ug/L | % |
| Tb | 159 | 1589758 | 1482702 | 0.6 | | ug/L | % |
| Sc | 45 | 698771 | 748101 | 0.5 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:34:26

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\064877-007A.028

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064877-007A

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 113047 | 1.1 | | ug/L | % |
| Ge | 72 | 145362 | 144771 | 0.4 | | ug/L | % |
| [> Sc-1 | 45 | 698771 | 748466 | 1.0 | | ug/L | % |
| [Cr | 52 | 8432 | 50812 | 0.9 | 3.890 | 0.059 ug/L | 1.5 % |
| In | 115 | 1346331 | 1287267 | 0.3 | | ug/L | % |
| Tb | 159 | 1589758 | 1505825 | 0.7 | | ug/L | % |
| Sc | 45 | 698771 | 748466 | 1.0 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:36:55

Dataset File: D:\ELAN\Elan\data03Sept\Dataset\2003\September\092303-2\064877-008A.029

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr.apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064877-008A

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 113648 | 1.3 | | ug/L | % |
| Ge | 72 | 145362 | 145801 | 0.9 | | ug/L | % |
| Sc-1 | 45 | 698771 | 754225 | 0.8 | | ug/L | % |
| Cr | 52 | 8432 | 48396 | 2.3 | 3.630 | 0.080 ug/L | 2.2 % |
| In | 115 | 1346331 | 1300697 | 0.7 | | ug/L | % |
| Tb | 159 | 1589758 | 1515575 | 0.8 | | ug/L | % |
| Sc | 45 | 698771 | 754225 | 0.8 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:39:27

Dataset File: D:\ELAN\Elanata03Sept\Dataset\2003\September\092303-2\CCV.030

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apci.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: CCV

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|--------------|------------|-----------|
| Li | 7 | 115366 | 109323 | 0.7 | | ug/L | % |
| Ge | 72 | 145362 | 133083 | 0.2 | | ug/L | % |
| [> Sc-1 | 45 | 698771 | 633437 | 0.1 | | ug/L | % |
| [Cr | 52 | 8432 | 97650 | 1.1 | 9.900 | 0.129 ug/L | 1.3 % |
| In | 115 | 1346331 | 1215182 | 1.3 | | ug/L | % |
| Tb | 159 | 1589758 | 1461627 | 0.4 | | ug/L | % |
| Sc | 45 | 698771 | 633437 | 0.1 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:42:01

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\CCB.031

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: CCB

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 106244 | 0.8 | | ug/L | % |
| Ge | 72 | 145362 | 135794 | 0.9 | | ug/L | % |
| [> Sc-1 | 45 | 698771 | 644603 | 0.6 | | ug/L | % |
| [Cr | 52 | 8432 | 8908 | 2.0 | 0.122 | 0.024 ug/L | 19.6 % |
| In | 115 | 1346331 | 1237905 | 0.8 | | ug/L | % |
| Tb | 159 | 1589758 | 1473174 | 1.0 | | ug/L | % |
| Sc | 45 | 698771 | 644603 | 0.6 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:44:33

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\064877-009A.032

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064877-009A

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|--------------|------------|-----------|
| Li | 7 | 115366 | 111164 | 1.7 | | ug/L | % |
| Ge | 72 | 145362 | 142593 | 1.0 | | ug/L | % |
| Sc-1 | 45 | 698771 | 830176 | 0.4 | | ug/L | % |
| Cr | 52 | 8432 | 88981 | 1.9 | 6.627 | 0.131 ug/L | 2.0 % |
| In | 115 | 1346331 | 1260885 | 0.9 | | ug/L | % |
| Tb | 159 | 1589758 | 1489450 | 1.1 | | ug/L | % |
| Sc | 45 | 698771 | 830176 | 0.4 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:47:03

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\064877-005AMS.033

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064877-005AMS

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 111588 | 1.2 | | ug/L | % |
| Ge | 72 | 145362 | 143697 | 0.7 | | ug/L | % |
| Sc-1 | 45 | 698771 | 788238 | 0.4 | | ug/L | % |
| Cr | 52 | 8432 | 88245 | 80.8 | 6.959 | 6.302 ug/L | 90.6 % |
| In | 115 | 1346331 | 1288516 | 1.5 | | ug/L | % |
| Tb | 159 | 1589758 | 1494271 | 0.8 | | ug/L | % |
| Sc | 45 | 698771 | 788238 | 0.4 | | ug/L | % |

*not reported
as 1/23/03*

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:49:33

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\064877-005AMSD.034

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064877-005AMSD

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|---------------|------------|-----------|
| Li | 7 | 115366 | 111786 | 0.5 | | ug/L | % |
| Ge | 72 | 145362 | 146792 | 0.7 | | ug/L | % |
| Sc-1 | 45 | 698771 | 809899 | 0.8 | | ug/L | % |
| Cr | 52 | 8432 | 132762 | 0.9 | 10.581 | 0.196 ug/L | 1.9 % |
| In | 115 | 1346331 | 1313646 | 0.7 | | ug/L | % |
| Tb | 159 | 1589758 | 1523124 | 0.4 | | ug/L | % |
| Sc | 45 | 698771 | 809899 | 0.8 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:52:05

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\CCV.035

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: **CCV**

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|--------------|------------|-----------|
| Li | 7 | 115366 | 108060 | 0.9 | | ug/L | % |
| Ge | 72 | 145362 | 134360 | 1.1 | | ug/L | % |
| Sc-1 | 45 | 698771 | 640874 | 2.1 | | ug/L | % |
| Cr | 52 | 8432 | 97794 | 1.1 | 9.794 | 0.255 ug/L | 2.6 % |
| In | 115 | 1346331 | 1238810 | 0.6 | | ug/L | % |
| Tb | 159 | 1589758 | 1476962 | 1.0 | | ug/L | % |
| Sc | 45 | 698771 | 640874 | 2.1 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 13:54:40

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\CCB.036

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: CCB

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 104889 | 0.6 | | ug/L | % |
| Ge | 72 | 145362 | 135122 | 0.2 | | ug/L | % |
| Sc-1 | 45 | 698771 | 640002 | 0.6 | | ug/L | % |
| Cr | 52 | 8432 | 8935 | 1.9 | 0.132 | 0.016 ug/L | 11.8 % |
| In | 115 | 1346331 | 1245090 | 0.8 | | ug/L | % |
| Tb | 159 | 1589758 | 1482854 | 1.4 | | ug/L | % |
| Sc | 45 | 698771 | 640002 | 0.6 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 14:39:46

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\064877-005AMS.037

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: 064877-005AMS

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|---------------|------------|-----------|
| Li | 7 | 115366 | 104241 | 0.5 | | ug/L | % |
| Ge | 72 | 145362 | 149173 | 0.4 | | ug/L | % |
| Sc-1 | 45 | 698771 | 829696 | 0.9 | | ug/L | % |
| Cr | 52 | 8432 | 137781 | 0.7 | 10.730 | 0.048 ug/L | 0.4 % |
| In | 115 | 1346331 | 1327321 | 0.7 | | ug/L | % |
| Tb | 159 | 1589758 | 1512788 | 0.4 | | ug/L | % |
| Sc | 45 | 698771 | 829696 | 0.9 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 14:42:19

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\CCV.038

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: CCV

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|--------------|------------|-----------|
| Li | 7 | 115366 | 104539 | 3.0 | | ug/L | % |
| Ge | 72 | 145362 | 139990 | 0.5 | | ug/L | % |
| Sc-1 | 45 | 698771 | 667896 | 1.1 | | ug/L | % |
| Cr | 52 | 8432 | 103122 | 0.1 | 9.917 | 0.103 ug/L | 1.0 % |
| In | 115 | 1346331 | 1280532 | 0.5 | | ug/L | % |
| Tb | 159 | 1589758 | 1512214 | 0.3 | | ug/L | % |
| Sc | 45 | 698771 | 667896 | 1.1 | | ug/L | % |

Quantitative Analysis Summary

Sample Date/Time: Tuesday, September 23, 2003 14:44:53

Dataset File: D:\ELAN\Eladata03Sept\Dataset\2003\September\092303-2\CCB.039

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 3

Sample ID: CCB

Sample Type:

Summary

| Analyte | Mass | Blank Intensity | Meas. Intensity | Int. RSD | Conc. Mean | Conc. SD | Conc. RSD |
|---------|------|-----------------|-----------------|----------|------------|------------|-----------|
| Li | 7 | 115366 | 101765 | 1.9 | | ug/L | % |
| Ge | 72 | 145362 | 139418 | 0.7 | | ug/L | % |
| Sc-1 | 45 | 698771 | 662166 | 0.3 | | ug/L | % |
| Cr | 52 | 8432 | 8861 | 1.9 | 0.092 | 0.020 ug/L | 21.5 % |
| In | 115 | 1346331 | 1276133 | 0.6 | | ug/L | % |
| Tb | 159 | 1589758 | 1505379 | 0.6 | | ug/L | % |
| Sc | 45 | 698771 | 662166 | 0.3 | | ug/L | % |